

# NSTR National SCADA Test Bed



U. S.  
NATIONAL  
RISK

CYBER ATTACKS  
MALICIOUS CODE  
ADVERSARY MODELING  
ATTACK GRAPHS  
CONTROL SYSTEM EFFECTS

## Virtual Control System Environment

*Provides a scalable virtual control systems environment for  
simulating cyber effects and evaluating security mitigation options*

### CHALLENGE / APPROACH

Develop a Control Systems  
Simulation Environment

Model Existing and Future Control Systems  
Devices and Communication Protocols

Design a Scalable Architecture to allow  
for Hardware-in-the-Loop

### ANALYSIS

Increase Security Awareness

Understand Impacts

Reduced Testing Costs

